

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	11/03/2015 11/03/2015	Herman Phillips

LM Start		Rating **	A	Issue No.	4		
LM End		Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Operations & Maintenance Manuals				o		o
					o		o
DWR ID	DWR_RD2060_01_f_2014_4						
Action/Comments							
Inspector Comments: RD 2060 has the O&M Manual on file.							

No Photos

LM Start		Rating **	A	Issue No.	7	
LM End		Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				o	
					o	
DWR ID	DWR_RD2060_01_f_2014_7					
Action/Comments						
Inspector Comments: RD 2060 has emergency supplies on hand.						

No Photos

LM Start		Rating **	A	Issue No.	12		
LM End		Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_RD2060_01_s_2012_12						
Action/Comments							
Inspector Comments: RD 2060 has trained staff for a flood fight.							

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Lindsey Slough	Left	6.97	11/03/2015 11/03/2015	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	3
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.247345 °	38.252453 °
				-121.696287 °	-121.722590 °
DWR ID	DWR_RD2060_01_f_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The District has burned the landside levee slope where possible in this area.					

Photo 1 of 1 : FA_2015_RD2060_241_3_20151103_00002.jpg



RD 2060 Landside levee slope from levee mile 0.00 looking downstream.

LM Start	0.41	Rating **	M	Issue No.	8
LM End	5.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.247977 °	38.263313 °
				-121.703633 °	-121.771563 °
DWR ID	DWR_RD2060_01_f_2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.57	Rating **	C	Issue No.	14
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.248630 °	38.248617 °
				-121.706403 °	-121.706667 °
DWR ID	DWR_RD2060_01_s_2012_14				
Action/Comments					
Note and monitor erosion site. Inspector Comments: District has placed some more rock in this area, they will place more later. 3-08-2011 viewed the erosion site, this site is still active. The district says that they will make repairs end of April or May 2011.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Lindsey Slough	Left	6.97	11/03/2015 11/03/2015	Herman Phillips

LM Start	1.86	Rating **	M	Issue No.	2
LM End	1.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.256535 °	38.257517 °
				-121.724753 °	-121.724823 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Multiple erosion pockets. Deep cracks throughout site could lead to further bank failure. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: LDS_1-9_L]					

No Photos

LM Start	2.15	Rating **	C	Issue No.	17
LM End	2.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.259254 °	38.259254 °
				-121.727257 °	-121.727257 °
DWR ID	DWR_RD2060_01_s_2013_17				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: District is aware of the problem, they are scheduling the area to be repaired 2014. During my inspection 10-23-2014 no new repairs has been done at this location. No new photo taken of site.					

No Photos

LM Start	2.44	Rating **	M	Issue No.	1
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.257224 °	38.257319 °
				-121.731953 °	-121.732423 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Two erosion pockets from rotational failures. Very soft soil. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: LDS_2-4_L]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	11/03/2015 11/03/2015	Herman Phillips

LM Start	3.14	Rating **	A	Issue No.	10
LM End	6.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.260158 °	38.274875 °
				-121.741895 °	-121.794850 °
DWR ID	DWR_RD2060_01_f _ 2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	5.08	Rating **	A	Issue No.	11
LM End	6.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.263317 °	38.274875 °
				-121.771480 °	-121.794850 °
DWR ID	DWR_RD2060_01_f _ 2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	5.08	Rating **	M	Issue No.	6
LM End	5.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.263157 °	38.263157 °
				-121.771543 °	-121.771543 °
DWR ID	DWR_RD2060_01_s _ 2012_6				
Action/Comments					

No Photos

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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	11/03/2015 11/03/2015	Herman Phillips

LM Start	0.03	Rating **	A	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.275343 °	38.296648 °
				-121.795125 °	-121.748765 °
DWR ID	DWR_RD2060_02_f_2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: No unwanted vegetation on the landside slope during this inspection.					

No Photos

LM Start	0.07	Rating **	A	Issue No.	9
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.275780 °	38.296648 °
				-121.795488 °	-121.748765 °
DWR ID	DWR_RD2060_02_f_2015_9				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: No unwanted weeds present during this inspection.					

Photo 1 of 1 : FA_2015_RD2060_242_9_20151103_00006.jpg



RD 2060 Looking downstream from the waterside levee slope levee mile 0.07 Unit 2.

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Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	11/03/2015 11/03/2015	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	14
LM End	5.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.296648 °	38.247523 °
				-121.748765 °	-121.696232 °
DWR ID	DWR_RD2060_03_f_2015_14				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: No unwanted weeds present on the landside levee slope.					

Photo 1 of 1 : FA_2015_RD2060_243_14_20151103_00011.jpg



RD 2060 Unit 3 looking downstream from levee mile 0.00 landside.

LM Start	0.94	Rating **	M	Issue No.	15
LM End	5.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.290590 °	38.247523 °
				-121.734903 °	-121.696232 °
DWR ID	DWR_RD2060_03_f_2015_15				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	1.52	Rating **	M	Issue No.	8
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.288598 °	38.286051 °
				-121.725184 °	-121.722818 °
DWR ID					
Action/Comments					
Inspector Comments: Site added in 1997 and removed in 2003. 2005 - Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011 - Some rock place at toe in the past year. 2013 - Site extended both upstream and downstream to include new erosion pockets. 2015: No observed changes. [2015 Site ID: CHS_23-6_R]					

Photo 1 of 1 : USACE2013A_CHS_23-6_R_2.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	11/03/2015 11/03/2015	Herman Phillips

LM Start	2.02	Rating **	M	Issue No.	1
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.284105 °	38.283302 °
				-121.718471 °	-121.717814 °
DWR ID					
Action/Comments					
Inspector Comments: 2010 - Small maintenance site. 2015: No observed changes. [2015 Site ID: CHS_23-0_R]					

Photo 1 of 1 : USACE2013A_CHS_23-0_R_1.jpg



USACE 2013 Photo #1

LM Start	2.12	Rating **	M	Issue No.	6
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.282880 °	38.282277 °
				-121.717487 °	-121.716996 °
DWR ID					
Action/Comments					
Inspector Comments: 2013 - Pockets of erosion behind willows. 2015: No observed changes. [2015 Site ID: CHS_22-9_R]					

Photo 1 of 1 : USACE2013A_CHS_22-9_R_1.jpg



USACE 2013 Photo #1

LM Start	2.18	Rating **	M	Issue No.	7
LM End	2.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.282100 °	38.281510 °
				-121.716817 °	-121.716319 °
DWR ID					
Action/Comments					
Inspector Comments: 2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2010 - Minor new erosion. 2015: No observed changes. [2015 Site ID: CHS_22-8_R]					

Photo 1 of 1 : USACE2013A_CHS_22-8_R_4.jpg



USACE 2013 Photo #1

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Unit No. 03 Cache Slough	Right	5.03	11/03/2015 11/03/2015	Herman Phillips

LM Start	2.35	Rating **	M	Issue No.	4
LM End	2.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.280377 °	38.278306 °
				-121.714633 °	-121.712722 °
DWR ID					
Action/Comments					
Inspector Comments: 2008 - Small scour pockets and mid-slope wave wash. 2010 - More vegetation growth, could be fixed through maintenance. 2011 - Site extended downstream and new erosion. 2015: No observed changes. [2015 Site ID: CHS_22-6_R]					

Photo 1 of 1 : USACE2013A_CHS_22-6_R_2.jpg



USACE 2013 Photo #1

LM Start	2.55	Rating **	M	Issue No.	5
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.278145 °	38.277774 °
				-121.712609 °	-121.712137 °
DWR ID					
Action/Comments					
Inspector Comments: 2013 - Erosion pockets into the levee toe. 2015: Erosion pockets have increased in size. [2015 Site ID: CHS_22-5_R]					

Photo 1 of 1 : USACE2013A_CHS_22-5_R_1.jpg



USACE 2013 Photo #1

LM Start	3.17	Rating **	A/W	Issue No.	12
LM End	3.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.270863 °	38.270324 °
				-121.706800 °	-121.705904 °
DWR ID	DWR_RD2060_03_s_2012_12				
Action/Comments					
Environmental Requirements. Inspector Comments: There was a fire this spring that burned this revegetation site, during the 2012 inspection new growth has sprouted up. During the 2013 inspection new sprouts continue to come up.					

No Photos

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LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
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CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	11/03/2015 11/03/2015	Herman Phillips

LM Start	3.78	Rating **	M	Issue No.	2
LM End	4.09	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.264585 °	38.260593 °
				-121.698868 °	-121.696403 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Several pockets of erosion from rotational failure and slumping toe. 2013 - Site extended downstream to include new erosion pockets. 2015: No observed changes. [2015 Site ID: CHS_21-1_R]					

Photo 1 of 1 : USACE2013A_CHS_21-1_R_12.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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